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Computer Science  
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David Tse | The  
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Schneider

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Entropy and Data

Compression

(III): Shannon's

Source Coding

Theorem, Symbol

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*Channel coding*

*new part 1*

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Lecture 8: Noisy  
Channel Coding  
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Theorem

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code solutions —  
day 14 What is  
NOT Random?~~

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*Entropy -*

*Definition WII?*

*(2a) Information  
Theory, Claude  
Shannon,*

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*Entropy, And  
Redundancy, Data  
Compression  
& Bits*

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Claude Shannon:  
A Mathematical  
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**(2 of 2) ~~What is  
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~~(Information  
Entropy) Source  
Coding Basics |  
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Coding Coding  
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CONTROL CODING -  
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Coding, 3:

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theory: mutual  
info. \u0026  
channel

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Definitions,  
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Properties of  
Information with  
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Huffman Coding  
Algorithm,  
Procedure \u0026

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Example, And  
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Error Coding

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Source, Joint

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theory and  
coding are the  
mathematical  
treatment of the  
ideas,  
parameters, and

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rules overseeing  
the transmission  
of messages  
through

communication  
frameworks. It  
was established  
by Claude  
Shannon toward  
the center of  
the twentieth  
century and has  
advanced into an  
incredible

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branch at the  
interface among  
arithmetic and  
communication

theory,  
encouraging the  
enhancement of  
other logical  
fields, for  
example,  
science, social  
science,  
neuroscience,  
and measurable

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types of codes .

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SJBMIT, B'lore 60

5 Unit - 1:

Information

Theory 1.1

Introduction: •

Communication

Communication

involves

explicitly the

transmission of

information from

one point to

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another, And

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Theory and

Coding -

**electrobian**

Information

theory is a

mathematical

approach to the

study of coding

of information

along with the

quantification,

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Storage, and  
communication of  
information.

Conditions of

Occurrence of

Events If we

consider an

event, there are

three conditions

of occurrence.

If the event has

not occurred,

there is a

condition of

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theory is a  
broad and deep  
mathematical  
theory, with  
equally broad

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and deep  
applications,  
amongst which is  
the vital field  
of coding  
theory. Coding  
theory is  
concerned with  
finding explicit  
methods, called  
codes , for  
increasing the  
efficiency and  
reducing the

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Theorem: The error rate of data communication over noisy channels can be made to approach the channel capacity.

## **Information theory - Wikipedia**

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Coding theory is  
the study of the  
properties of  
codes and their  
respective

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fitness for  
specific  
applications.

Codes are used  
for data  
compression,  
cryptography,  
error detection  
and correction,  
data  
transmission and  
data storage.

Codes are  
studied by

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various And  
scientific  
disciplines—such  
as information  
theory,  
electrical  
engineering,  
mathematics,  
linguistics, and  
computer  
science—for the  
purpose of  
designing  
efficient and

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reliable data  
transmission  
methods. This  
typically  
involves the ...

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Probability,

Uncertainty, and

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Entropies

Defined, and Why

they are

Measures of

Information 3.

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Source Coding  
Theorem; Prefix,  
Variable-, &  
Fixed-Length  
Codes 4.

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## **Theory And Uncertainty ...**

Offered by The  
Chinese

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Hong Kong. The  
lectures of this  
course are based  
on the first 11  
chapters of  
Prof. Raymond  
Yeung's textbook  
entitled  
Information

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Theory and  
Network Coding  
(Springer 2008).

This book and  
its predecessor,  
A First Course  
in Information  
Theory (Kluwer  
2002,  
essentially the  
first edition of  
the 2008 book),  
have been  
adopted by over

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theory, coding

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## Theory . . .

Information  
and Coding

Theory. Cyclic  
codes. CC is a  
kind of linearly  
group code rel.  
to systematic  
code. It is  
convenient to  
set the cyclic  
binary code  
vector in the  
form of a

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polynomial (and

not a

combination of

0.1).  $F(x) =$

$a_{n-1}x^{n-1} (+)$

$a_{n-2}x^{n-2} (+) \dots$

**Cyclic codes.**

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